	Application No.	Applicant(s)	
Notice of Allowability	10/768,848	KUO ET AL.	
	Examiner	Art Unit	<u> </u>
	David Nhu	2818	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comming IGHTS. This application is	n this application. If not included unication will be mailed in due co	ourse. THIS
1. This communication is responsive to <u>1/29/04</u> .			
2. The allowed claim(s) is/are 1-20.			
3. \boxtimes The drawings filed on <u>29 January 2004</u> are accepted by th	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	e been received. e been received in Applicati cuments have been receive of this communication to fil	on No ed in this national stage applicatio	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
 6. CORRECTED DRAWINGS (as "replacement sheets") muse (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date ldentifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the Total DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	son's Patent Drawing Revie s Amendment / Comment of .84(c)) should be written on he header according to 37 C sit of BIOLOGICAL MAT	or in the Office action of the drawings in the front (not the b FR 1.121(d). 'ERIAL must be submitted. No	
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. Interview S Paper No 08), 7. Examiner's	Informal Patent Application (PTO-Summary (PTO-413), Mail Date S Amendment/Comment S Statement of Reasons for Allow	ance

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REASONS FOR ALLOWANCE

2. Claims 1-20 are allowed.

3. The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests as cited in claims 1, 13, 17: A method for preventing detachment of functional solder bumps from a flip chip having empty spaces between adjacent ones of the functional solder bumps, comprising: stabilizing the functional solder bumps on the flip chip by providing an anchoring solder bump in each of at least a portion of the empty spaces, respectively; and providing a printed circuit board (PCB) substrate on said functional solder bumps and said anchoring solder bumps (as cited in claims 1, 13); providing a solder bridge between each of said anchoring solder bumps and one of the functional solder bumps; and providing a PCB substrate on said functional solder bumps and said anchoring solder bumps (as cited in claim 17).

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Gao et al (6,686,665 B1): Solder Pad Structure for Low Temperature Co-Fired Ceramic Package and Method for Making the same.

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6. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to 5:00 PM.

The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

David Nhu

April 28, 2005

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